

TRC

Certificate of Compliance

Training Research Co., Ltd.

hereby certifies that

EDIMAX TECHNOLOGY CO., LTD.

10/100 BaseTX To 100Base-FX Media Converter

1000Base-T To 1000Base-SX/LX Media Converter

12 Slot Universal Media Converter Rack 19-Inch, Tray Design ,Dual Power

Model No.: ET-912, ET-913, ET-910MCR

Applicant address

No.3, Wu Chuan 3rd Road, Wu-Ku Industrial Park. Taipei Hsien, Taiwan

is fulfilled

the 47 CFR, Part 2 and Part 15 of FCC Rules

The Certificate is authorized under

Declaration of Conformity

Test procedures: ANSI C63.4

Test Date: May 9, 2003

Certificate Registration No.: E3015050191

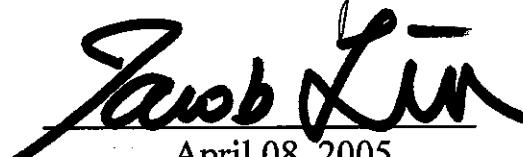
April 8, 2005



V. General Manager, Jacob Lin



Training Research Co., Ltd. (NVLAP LAB CODE : 200174-0)

Report No.	E30CE050190
Directives Standard	89/336/EEC,92/31/EEC.,93/68/EEC EMC, Class B EN 55022/EN 55024 (CE)
Applicant	EDIMAX TECHNOLOGY CO., LTD.
Applicant Address	No.3, Wu Chuan 3rd Road, Wu-Ku Industrial Park. Taipei Hsien, Taiwan
Items tested	10/100 BaseTX To 100Base-FX Media Converter 1000Base-T To 1000Base-SX/LX Media Converter 12 Slot Universal Media Converter Rack 19-Inch, Tray Design ,Dual Power
Model No.	ET-912, ET-913, ET-910MCR
Sample No.	C68614
Results	Compliance (As detailed within this report)
Date	04/30/2003 (month / day / year)(Sample received) 05/09/2003 (month / day / year)(Tested)
Prepared by	 Project Engineer
Authorized by	 V. General Manager (Jacob Lin) April 08, 2005 (month / day / year)
Issue date	
Modifications	None
Tested by	Training Research Co., Ltd. (Accredited by NVLAP)
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Conditions of issue :

- *This test report shall not be reproduced except in full, without written approval of TRC. And the test result contained within this report only relate to the sample submitted for testing.*
- *The test data in this test report are following the procedures in accordance with the terms of accreditation.*
- *This test report and measurements made by TRC are traceable to the NIST only Conducted and Radiated Method (TRC is accredited by NVLAP, code No.: 200174-0).*
- *The device has been tested is fully complied with the requirements the Directive 89/336/EEC (CE) and AS/NZS 3548 (C-Tick).*

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Chapter 1 Introduction

Description of EUT:

This EUT is a 12 Slot Universal Media Converter Rack, features as below:

ET-910MCR (12 Slot Universal Media Converter Rack):

- Diagnostic LEDs: Power A
Power B
- Power: AC 100-240V, 50-60Hz
- Consumption Power: Consumption power (Full Module)=59.90w
Consumption power (Empty Module)=10.89w
- Dimensions: Dimensions: 437 x 280 x 88 mm (W x D x H)
Weight: 5Kg
- Temperature: Operating: 0~45°C
Storage: -20~60°C
- Humidity: 5%~90% RH

ET-912 (Fast Ethernet Switching Converter)

- 10/100Base-TX to 100Base-FX converter
- Store & Forward switching mechanism
- Comply to IEEE 802.3, 802.3u
- MDI/MDIX Auto-Crossover supported
- Auto-Negotiation or Manual mode setting of Speed & Duplex mode.
- LED Indication: Power, FDX; TP 100, TP Link/Activity; FX 100, FX Link/Activity
- Fiber Link Alarm function

ET-913 (Gigabit Ethernet Converter):

- 1000Base-T to 1000BASE-SX/LX Converter
- Standard: IEEE 802.3z & 802.3ab
- Interface: 1 * RJ-45 connector
1 * SC Duplex connector or
1 * SC Simplex connector (W2 type)
- MDI/MDIX Auto-Crossover supported
- LED: Power, FDX, TP Link, FO Link, TP ACT, FO ACT
- Plug-and-Play installation
- Support Link Alarm
- Support Jumbo Frame (64-9216 Byte)
- Support Voltage Monitor

Test method:

Pretest was found that the emission of operating mode is worse than standby mode. So, The final test is made at the operating mode.

During testing, there are ten modes were tested:

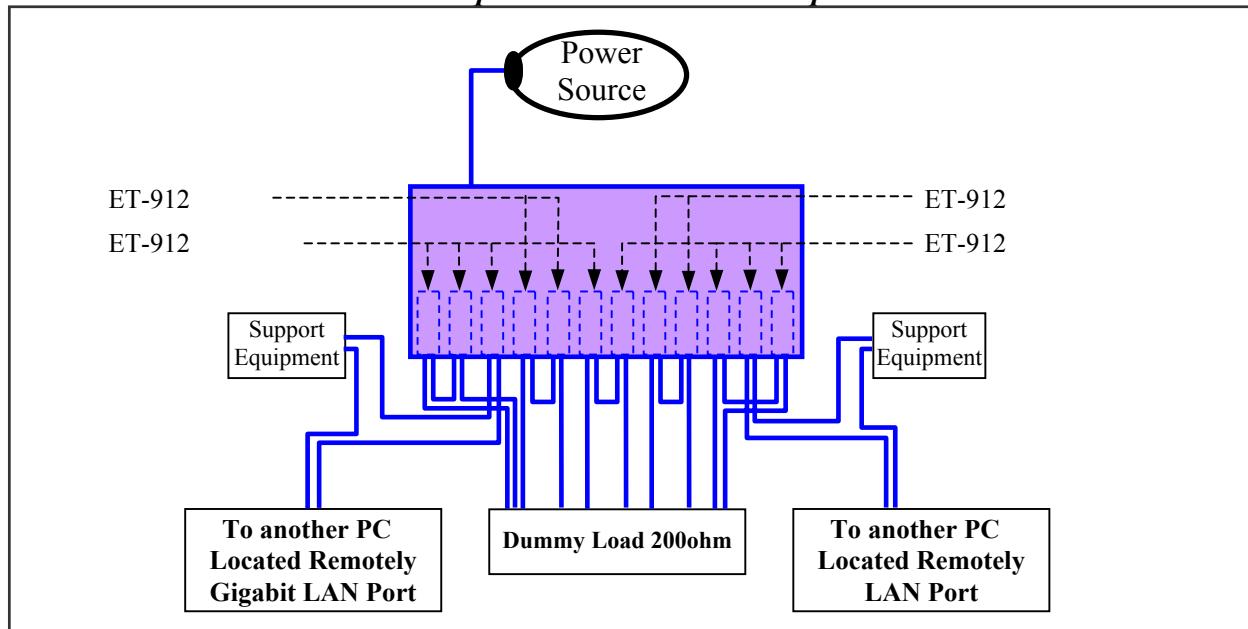
- ET-913 1000 x 1000Mbps + ET-912 100 x 100Mbps 110Vac/60Hz
- ET-913 1000 x 1000Mbps 110Vac/60Hz
- ET-912 100 x 100Mbps 110Vac/60Hz
- ET-913 1000 x 1000Mbps + ET-912 100 x 100Mbps 230Vac/50Hz
- ET-913 1000 x 1000Mbps 230Vac/50Hz
- ET-912 100 x 100Mbps 230Vac/50Hz

The radiation pretest was found out the testing mode: “ET-913 1000 x 1000Mbps + ET-912 100 x 100Mbps 110Vac/60Hz” was the worst case.

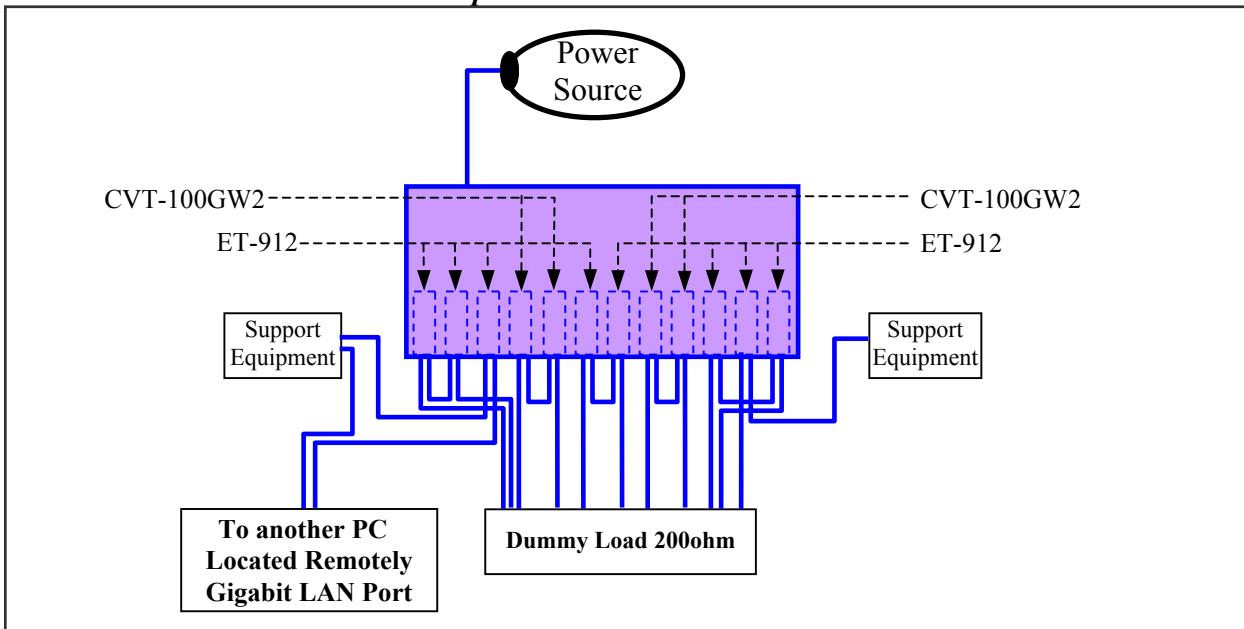
During testing, the EUT was operated at “transmitting” and “receiving” mode simultaneously.

The test placement as the photographs showed is the worst emission placed. (If the emission is close to the ambient, the resolution BW and view resolution will be reduced and the data will be recorded by detection of maximum hold peak mode.)

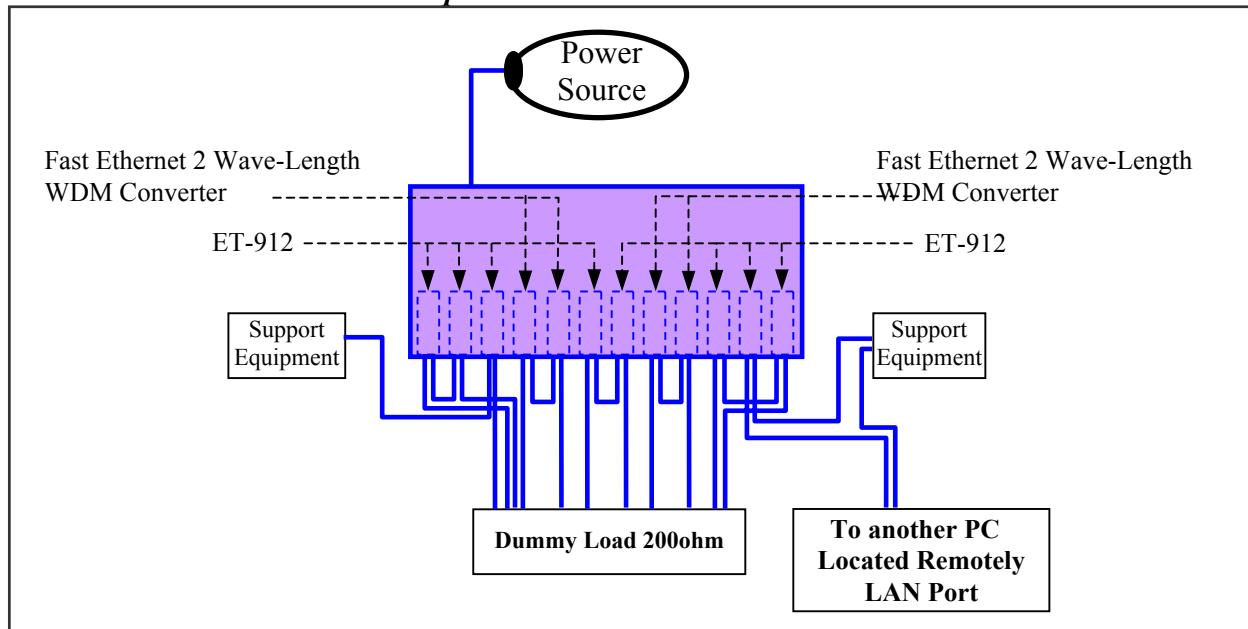
The testing configuration of test setup is showing in the next page.

Configuration of test setup**Test Mode: ET-913 1000 x 1000Mbps +ET-912 100 x 100Mbps****Connections:****EUT:**

- *Slot-1, 2 (ET-913) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-1, 2 (ET-913) Fiber port --- via a 1m length fiber cable connect with each other.
- *Slot-3 (ET-913) UTP port --- via a 10m long, non-shielded, no ferrite bead, RJ-45 cable to the RJ-45 jack of the LAN card that installed in the PC located remotely.
- *Slot-3 (ET-913) Fiber port --- via a 5m length fiber cable to the support equipment.
- *Slot-4, 5 (ET-913) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-4, 5 (ET-913) Fiber port --- via a 1m length fiber cable connect with each other.
- *Slot-6 (ET-913) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-6 (ET-913) Fiber port --- via a 1m length fiber cable to the fiber port of Slot-7.
- *Slot-7 (ET-912) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-7 (ET-912) Fiber port --- via a 1m length fiber cable to the fiber port of Slot-6.
- *Slot-8, 9 (CVT-100GW2) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-8, 9 (CVT-100GW2) Fiber port --- via a 1m length fiber cable connect with each other.
- *Slot-10, 12 (ET-912) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-10, 12 (ET-912) Fiber port --- connect with each other.
- *Slot-11 (ET-912) UTP port --- via a 10m long, non-shielded, no ferrite bead, RJ-45 cable to the RJ-45 jack of the LAN card that installed in the PC located remotely.
- *Slot-11 (ET-912) Fiber port --- via a 5m length fiber cable to the support equipment.
- *Power port --- via a 1.80m length power cable with a power adaptor to the power source.

Configuration of test setup**Test Mode: ET-913 1000 x 1000Mbps****Connections:****EUT:**

- *Slot-1, 2 (ET-913) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-1, 2 (ET-913) Fiber port --- via a 1m length fiber cable connect with each other.
- *Slot-3 (ET-913) UTP port --- via a 10m long, non-shielded, no ferrite bead, RJ-45 cable to the RJ-45 jack of the LAN card that installed in the PC located remotely.
- *Slot-3 (ET-913) Fiber port --- via a 5m length fiber cable to the support equipment.
- *Slot-4, 5 (CVT-3002GW2) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-4, 5 (CVT-3002GW2) Fiber port --- via a 1m length fiber cable connect with each other.
- *Slot-6 (ET-913) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-6 (ET-913) Fiber port --- via a 1m length fiber cable to the fiber port of Slot-7.
- *Slot-7 (ET-912) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-7 (ET-912) Fiber port --- via a 1m length fiber cable to the fiber port of Slot-6.
- *Slot-8, 9 (CVT-100GW2) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-8, 9 (CVT-100GW2) Fiber port --- via a 1m length fiber cable connect with each other.
- *Slot-10, 12 (ET-912) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-10, 12 (ET-912) Fiber port --- connect with each other.
- *Slot-11 (ET-912) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-11 (ET-912) Fiber port --- via a 5m length fiber cable to the support equipment.
- *Power port --- via a 1.80m length power cable with a power adaptor to the power source.

Configuration of test setup**Test Mode: ET-912 100 x 100Mbps****Connections:*****EUT:***

- *Slot-1, 2 (ET-913) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-1, 2 (ET-913) Fiber port --- via a 1m length fiber cable connect with each other.
- *Slot-3 (ET-913) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-3 (ET-913) Fiber port --- via a 5m length fiber cable to the support equipment.
- *Slot-4, 5 (Fast Ethernet 2 Wave-Length WDM Converter) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-4, 5 (Gigabit Ethernet Converter) Fiber port --- via a 1m length fiber cable connect with each other.
- *Slot-6 (ET-913) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-6 (ET-913) Fiber port --- via a 1m length fiber cable to the fiber port of Slot-7.
- *Slot-7 (ET-912) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-7 (ET-912) Fiber port --- via a 1m length fiber cable to the fiber port of Slot-6.
- *Slot-8, 9 (Fast Ethernet 2 Wave-Length WDM Converter) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-8, 9 ((Fast Ethernet 2 Wave-Length WDM Converter)) Fiber port --- via a 1m length fiber cable connect with each other.
- *Slot-10, 12 (ET-912) UTP port --- connect with a 2m length RJ-45 cable that terminated with 200ohm.
- *Slot-10, 12 (ET-912) Fiber port --- connect with each other.
- *Slot-11 (ET-912) UTP port --- via a 10m long, non-shielded, no ferrite bead, RJ-45 cable to the RJ-45 jack of the LAN card that installed in the PC located remotely.
- *Slot-11 (ET-912) Fiber port --- via a 5m length fiber cable to the support equipment.
- *Power port --- via a 1.80m length power cable with a power adaptor to the power source.

List of support equipment

Conducted (Radiated) test:

PC : **HP Brio 85xx 6/350**
Model No. : D6928A
Serial No. : SG91801432
FCC ID : Doc Approved
Power type : 100 ~ 230VAC / 50 ~ 60Hz, 5A, Switching
Power cord : Non-shielded, 2.33m long, Plastic, No ferrite core

PC : **HP Vectra VE**
Model No. : D6970A
Serial No. : SG53000707
FCC ID : Doc Approved
Power type : 100 ~ 230VAC / 50 ~ 60Hz, 5A, Switching
Power cord : Non-shielded, 2.30m long, Plastic, No ferrite core

Giga Lan Card: **LINKSYS**
Model No. : EG1064
Serial No. : N/A
FCC ID : Doc Approved
Power Type : Powered by PC
Data Cable : UTP, 7', Plastic RJ-45 hoods, no ferrite bead

Lan Card : **DELTA, SURTEC**
Model No. : AEF380-TX, SFC-7211R
Serial No. : N/A
FCC ID : Doc Approved
Power Type : Powered by PC
Data Cable : UTP, 7', Plastic RJ-45 hoods, no ferrite bead

Support Equipment: Media Converter

Model No. : ET-912
Serial No. : N/A
FCC ID : Doc Approved
Power type : DC 5V 1.6A

Support Equipment: Media Converter

Model No. : ET-913
Serial No. : N/A
FCC ID : Doc Approved
Power type : DC 5V 1.6A

Chapter 2 Conducted emission test

Test condition and setup:

All the equipment is placed and setup according to the CISPR 22.

The EUT is assembled on a wooden table that is 80 cm high, is placed 40 cm from the back-wall that is a vertical conducting plane. One LISN is for EUT, the other LISN is for support equipment. They are all placed on the conductive ground. The EUT's LISN connect a line switch box for selecting L1 or L2, then connect to a preamplifier and spectrum.

The spectrum measured from 150KHz to 30MHz. Conducted emission levels are detected at max. peak mode. But if the max. peak mode failed or over average limit, it will be measured by QP and average detection mode using the Receiver.

While testing, there is the worst-emission plot printed at peak detection mode, and there are more than 6 highest emissions relative to limit recorded. The plot is kept as the original data, not included in test report.

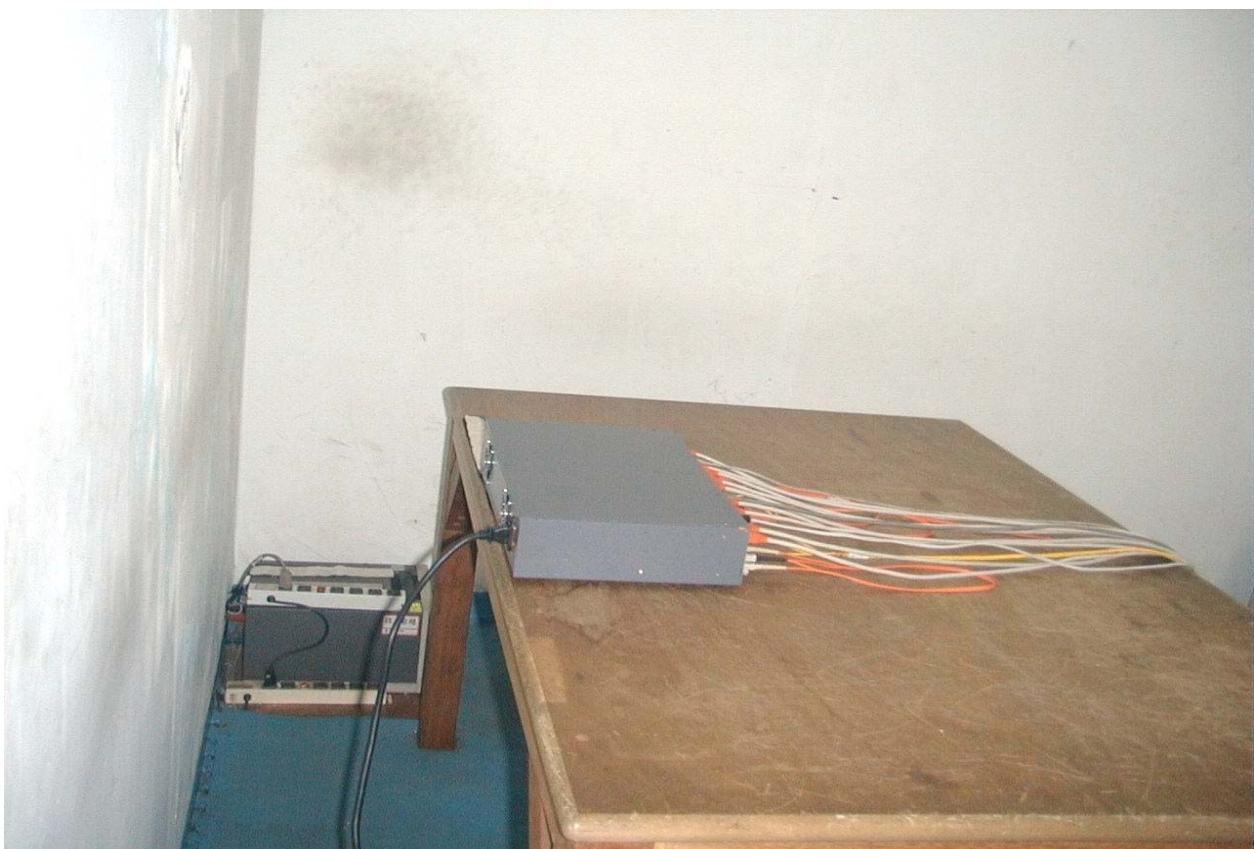
List of test Instrument :

Instrument Name	Model No.	Brand	Serial No.	Calibration Date	Next time
Receiver	SCR3102	SCHAFFNER	012	03/29/03	03/28/04
LISN (EUT)	3825/2	EMCO	9411-2284	06/17/03	06/16/04
LISN (Support E.)	3825/2	EMCO	9210-2007	05/31/03	05/31/04
Preamplifier	EQ3-006	TRC	-----	05/15/03	05/15/04
Line switch box	EQ3-007	TRC	-----	05/15/03	05/15/04

The level of confidence of 95% , the uncertainty of measurement of conducted emission is ± 2.02 dB .

Test Result: Pass (Appendix A)

Conducted Test Placement: (Photographs)



Chapter 3 Radiated emission test

Test condition and setup:

Pretest : Prior to the final test (OATS test) ,the EUT is placed in a shielded enclosure, and scan from 30MHz to 1GHz. This is done to ensure the radiation exactly emits from the EUT.

Final test: Final radiation measurement is made on a **10 - meter**, open-field test site. The EUT is placed on a nonconductive table that is 0.8m height, the top surface is 1.0 x 1.5 meter. The placement is according to CISPR 22.

The M. E. whole range Antenna is used to measure frequency from 30 MHz to 1GHz. The final test is used the Receiver.

Measure more than six top marked frequencies generated from pretest by computer step by step at each frequency. The EUT is rotated 360 degrees, and antenna is raised and lowered from 1 to 4 meters to find the maximum emission levels. The antenna is used with both horizontal and vertical polarization.

Appropriated preamplifier that is made by TRC is used for improving sensitivity and precaution is taken to avoid overloading. The spectrum analyzer's 6dB bandwidth is set to 120 KHz, and the EUT is measured at quasi-peak mode.

If the emission is close to the frequency band of ambient, the tester will recheck the data and the corrected data will be written in the test data sheet. If the emission is just within the ambient, the data from shield room will be taken as the final data.

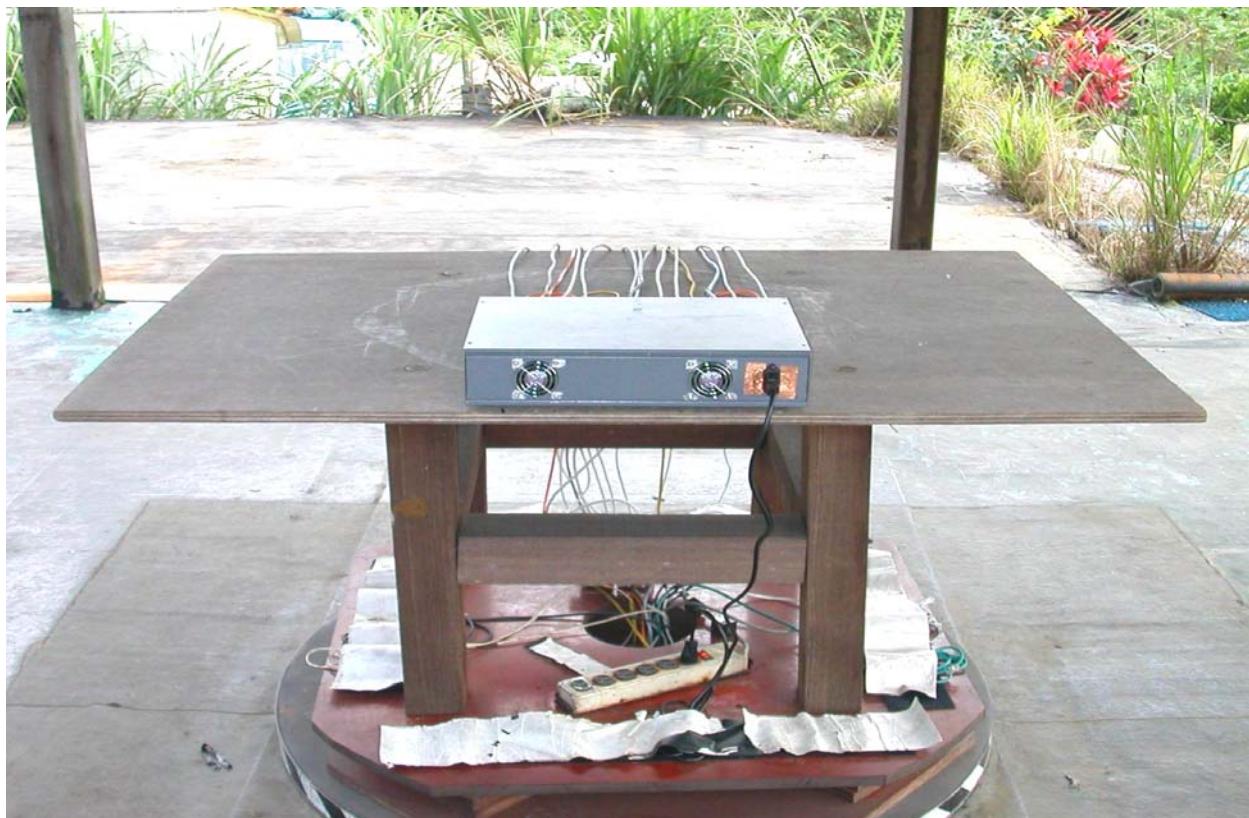
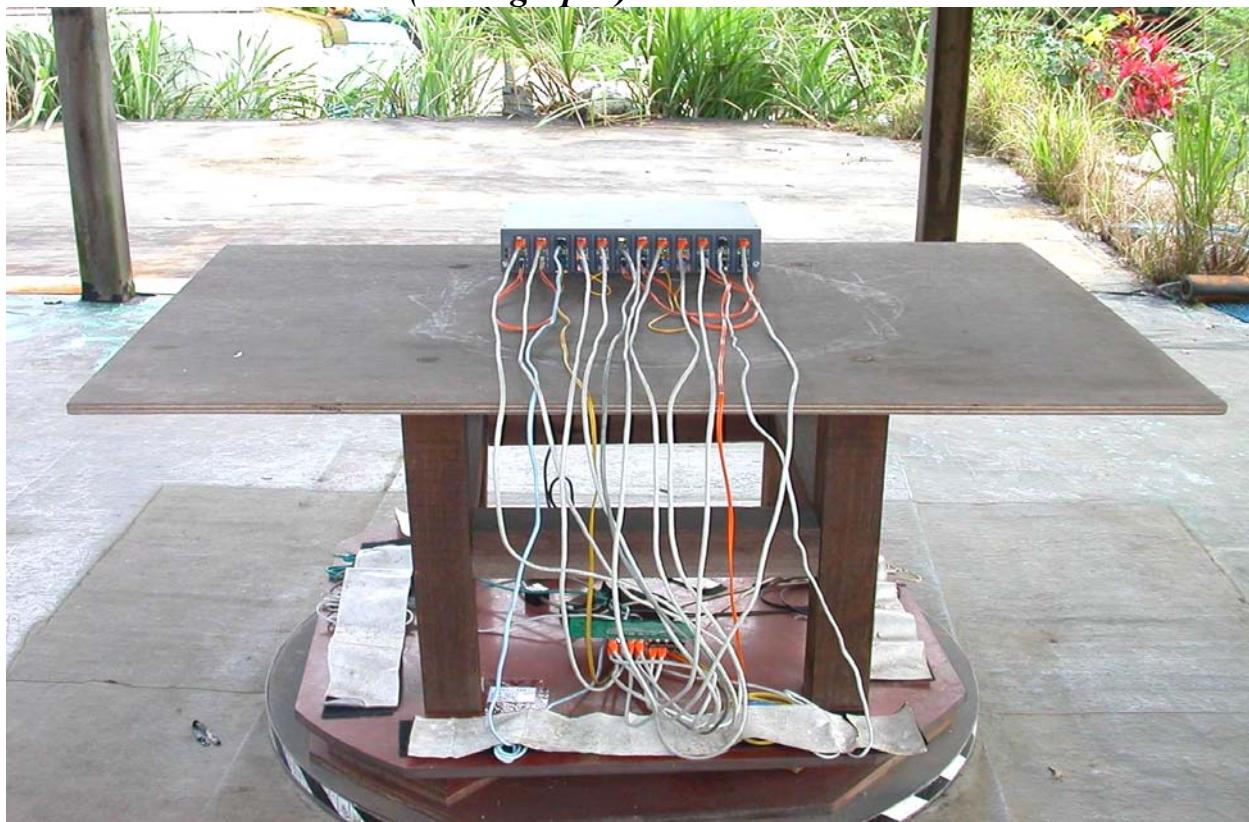
List of test Instrument :

<u>Calibration Date</u>					
Instrument Name	Model No.	Brand	Serial No.	Last time	Next time
Receiver	SCR3102	SCHAFFNER	021	03/29/03	03/28/04
Control Box	TWR95-4	TRC	CB-002	N/A	N/A
Antenna	CBL6141A	SCHAFFNER	4188	11/29/02	11/29/03
Open test side (Antenna, Amplify, cable calibrated together)				05/16/03	
				05/15/04	

The level of confidence of 95%, the uncertainty of measurement of radiated emission is ± 3.44 dB.

Test Result : Pass (Appendix B)

Radiated Test Placement: (Photographs)



Appendix A**Conducted Emission Test Result:****Test Mode: ET-912 100 x 100Mbps 110Vac/60Hz**

Testing room : Temperature : 23 ° C Humidity : 63 % RH

Line 1

Frequency (KHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	
153.00	43.75	***.**	***.**	65.91	55.91	-12.16
169.00	34.53	***.**	***.**	65.46	55.46	-20.93
203.00	42.04	***.**	***.**	64.49	54.49	-12.44
208.00	34.44	***.**	***.**	64.34	54.34	-19.90
1027.00	25.61	***.**	***.**	56.00	46.00	-20.39
1084.00	24.61	***.**	***.**	56.00	46.00	-21.39
6890.00	32.19	***.**	***.**	60.00	50.00	-17.81
22460.00	30.24	***.**	***.**	60.00	50.00	-19.76
23050.00	34.35	***.**	***.**	60.00	50.00	-15.65
24120.00	29.75	***.**	***.**	60.00	50.00	-20.27

Line 2

Frequency (KHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	
152.00	48.87	***.**	***.**	65.94	55.94	-7.070
156.00	45.06	***.**	***.**	65.83	55.83	-10.77
163.00	40.78	***.**	***.**	65.63	55.63	-14.85
169.00	40.53	***.**	***.**	65.46	55.46	-14.93
183.00	33.74	***.**	***.**	65.06	55.06	-21.32
202.00	45.62	***.**	***.**	64.51	54.51	-8.89
272.00	31.31	***.**	***.**	62.51	52.51	-21.20
22310.00	31.12	***.**	***.**	60.00	50.00	-18.88
23050.00	37.67	***.**	***.**	60.00	50.00	-12.33
24120.00	30.84	***.**	***.**	60.00	50.00	-19.16

*The reading amplitudes are all under limit.

Conducted Emission Test Result:**Test Mode: ET-912 100 x 100Mbps 230Vac/50Hz**

Testing room : Temperature : 23 ° C Humidity : 63 % RH

Line 1

Frequency (KHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	
150.00	42.90	***.**	***.**	66.00	56.00	-13.10
156.00	37.29	***.**	***.**	65.83	55.83	-18.54
201.00	42.60	***.**	***.**	64.54	54.54	-11.94
1048.00	26.42	***.**	***.**	56.00	46.00	-19.58
6890.00	33.61	***.**	***.**	60.00	50.00	-16.39
21560.00	27.63	***.**	***.**	60.00	50.00	-22.37
22460.00	30.22	***.**	***.**	60.00	50.00	-19.78
23050.00	35.06	***.**	***.**	60.00	50.00	-14.94
23650.00	33.80	***.**	***.**	60.00	50.00	-16.20
25870.00	28.94	***.**	***.**	60.00	50.00	-21.06

Line 2

Frequency (KHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	
152.00	46.63	***.**	***.**	65.94	55.94	-9.31
163.00	41.12	***.**	***.**	65.63	55.63	-14.51
169.00	38.02	***.**	***.**	65.46	55.46	-17.44
173.00	37.43	***.**	***.**	65.34	55.34	-17.92
179.00	37.64	***.**	***.**	65.17	55.17	-17.53
201.00	46.75	***.**	***.**	64.54	54.54	-7.80
272.00	35.06	***.**	***.**	62.51	52.51	-17.45
22460.00	32.64	***.**	***.**	60.00	50.00	-17.36
23050.00	34.75	***.**	***.**	60.00	50.00	-15.25
23650.00	33.87	***.**	***.**	60.00	50.00	-16.13

*The reading amplitudes are all under limit.

Conducted Emission Test Result:**Test Mode: ET-913 1000 x 1000Mbps 110Vac/60Hz**

Testing room : Temperature : 23 ° C Humidity : 57 % RH

Line 1

Frequency (KHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	
150.00	43.85	***.**	***.**	66.00	56.00	-12.15
155.00	40.54	***.**	***.**	65.86	55.86	-15.32
165.00	35.72	***.**	***.**	65.57	55.57	-19.85
202.00	42.65	***.**	***.**	64.51	54.51	-11.87
6890.00	28.76	***.**	***.**	60.00	50.00	-21.24
7070.00	27.45	***.**	***.**	60.00	50.00	-22.55
7820.00	27.40	***.**	***.**	60.00	50.00	-22.60
23050.00	30.12	***.**	***.**	60.00	50.00	-19.88
23650.00	35.01	***.**	***.**	60.00	50.00	-14.99
26220.00	28.48	***.**	***.**	60.00	50.00	-21.52

Line 2

Frequency (KHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	
151.00	44.79	***.**	***.**	65.97	55.97	-11.18
155.00	43.31	***.**	***.**	65.86	55.86	-12.54
166.00	44.13	***.**	***.**	65.54	55.54	-11.42
175.00	37.06	***.**	***.**	65.29	55.29	-18.22
179.00	34.99	***.**	***.**	65.17	55.17	-20.18
191.00	39.38	***.**	***.**	64.83	54.83	-15.45
201.00	48.10	***.**	***.**	64.54	54.54	-6.45
7880.00	29.17	***.**	***.**	60.00	50.00	-20.83
21860.00	29.54	***.**	***.**	60.00	50.00	-20.46
23050.00	33.23	***.**	***.**	60.00	50.00	-16.77

*The reading amplitudes are all under limit.

Conducted Emission Test Result:**Test Mode: ET-913 1000 x 1000Mbps 230Vac/50Hz**

Testing room : Temperature : 23 ° C Humidity : 57 % RH

Line 1

Frequency (KHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	
150.00	45.77	***.**	***.**	66.00	56.00	-10.23
162.00	38.15	***.**	***.**	65.66	55.66	-17.51
167.00	35.98	***.**	***.**	65.51	55.51	-19.53
197.00	36.85	***.**	***.**	64.66	54.66	-17.81
202.00	43.88	***.**	***.**	64.51	54.51	-10.64
208.00	37.05	***.**	***.**	64.34	54.34	-17.29
1015.00	27.63	***.**	***.**	56.00	46.00	-18.37
1063.00	29.15	***.**	***.**	56.00	46.00	-16.85
23050.00	30.79	***.**	***.**	60.00	50.00	-19.21
24120.00	29.06	***.**	***.**	60.00	50.00	-20.94

Line 2

Frequency (KHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	
152.00	45.82	***.**	***.**	65.94	55.94	-10.12
156.00	44.92	***.**	***.**	65.83	55.83	-10.91
163.00	39.63	***.**	***.**	65.63	55.63	-16.00
192.00	39.33	***.**	***.**	64.80	54.80	-15.47
202.00	47.84	***.**	***.**	64.51	54.51	-6.67
208.00	41.29	***.**	***.**	64.34	54.34	-13.05
267.00	35.48	***.**	***.**	62.66	52.66	-17.18
272.00	35.51	***.**	***.**	62.51	52.51	-17.00
23050.00	33.71	***.**	***.**	60.00	50.00	-16.29
26220.00	30.73	***.**	***.**	60.00	50.00	-19.27

*The reading amplitudes are all under limit.

Conducted Emission Test Result:**Test Mode: ET-913 1000 x 1000Mbps + ET-912 100 x 100Mbps 110Vac/60Hz**

Testing room : Temperature : 23 ° C Humidity : 57 % RH

Line 1

Frequency (KHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	
153.00	43.54	***.**	***.**	65.91	55.91	-12.37
163.00	34.63	***.**	***.**	65.63	55.63	-21.00
167.00	33.34	***.**	***.**	65.51	55.51	-22.17
205.00	40.30	***.**	***.**	64.43	54.43	-14.13
564.00	23.33	***.**	***.**	56.00	46.00	-22.67
1070.00	24.21	***.**	***.**	56.00	46.00	-21.79
22460.00	29.00	***.**	***.**	60.00	50.00	-21.00
23050.00	30.91	***.**	***.**	60.00	50.00	-19.09
23650.00	31.05	***.**	***.**	60.00	50.00	-18.95
26220.00	27.19	***.**	***.**	60.00	50.00	-22.81

Line 2

Frequency (KHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	
151.00	48.29	***.**	***.**	65.97	55.97	-7.68
162.00	42.25	***.**	***.**	65.66	55.66	-13.41
167.00	40.77	***.**	***.**	65.51	55.51	-14.74
171.00	40.99	***.**	***.**	65.40	55.40	-14.41
181.00	37.38	***.**	***.**	65.11	55.11	-17.74
192.00	36.08	***.**	***.**	64.80	54.80	-18.72
202.00	47.34	***.**	***.**	64.51	54.51	-7.17
23050.00	35.50	***.**	***.**	60.00	50.00	-14.50
24120.00	30.84	***.**	***.**	60.00	50.00	-19.16
26220.00	29.99	***.**	***.**	60.00	50.00	-20.01

*The reading amplitudes are all under limit.

Conducted Emission Test Result:**Test Mode: ET-913 1000 x 1000Mbps + ET-912 100 x 100Mbps 230Vac/50Hz**

Testing room : Temperature : 23 ° C Humidity : 57 % RH

Line 1

Frequency (KHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	
150.00	39.97	***.**	***.**	66.00	56.00	-16.03
156.00	35.34	***.**	***.**	65.83	55.83	-20.49
161.00	34.71	***.**	***.**	65.69	55.69	-20.98
194.00	34.32	***.**	***.**	64.74	54.74	-20.42
202.00	43.53	***.**	***.**	64.51	54.51	-10.99
1021.00	25.14	***.**	***.**	56.00	46.00	-20.86
1091.00	27.12	***.**	***.**	56.00	46.00	-18.88
22460.00	29.73	***.**	***.**	60.00	50.00	-20.27
23050.00	36.78	***.**	***.**	60.00	50.00	-13.22
24120.00	31.00	***.**	***.**	60.00	50.00	-19.00

Line 2

Frequency (KHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)	
150.00	45.72	***.**	***.**	66.00	56.00	-10.28
158.00	39.47	***.**	***.**	65.77	55.77	-16.31
163.00	38.70	***.**	***.**	65.63	55.63	-16.93
167.00	37.13	***.**	***.**	65.51	55.51	-18.38
203.00	47.41	***.**	***.**	64.49	54.49	-7.07
267.00	33.96	***.**	***.**	62.66	52.66	-18.70
272.00	35.11	***.**	***.**	62.51	52.51	-17.40
22460.00	29.78	***.**	***.**	60.00	50.00	-20.22
23050.00	37.60	***.**	***.**	60.00	50.00	-12.40
24120.00	32.41	***.**	***.**	60.00	50.00	-17.59

*The reading amplitudes are all under limit.

Appendix B**Radiated Emission Test Result:****Test Mode: ET-913 1000 x 1000Mbps + ET-912 100 x 100Mbps 110Vac/60Hz**

Test Conditions:

Testing site : Temperature : 25°C Humidity : 73 % RH

Frequency	Reading Amplitude	Ant. Height	Table	Correction Factors	Corrected Amplitude	Limit	Margin
MHz	dB μ V/m	m	degree	dB	dB μ V/m	dB μ V/m	dB

(Horizontal)

250.0200	27.36	2.49	300	-1.80	25.56	37.00	-11.44
375.0300	29.90	2.49	279	3.15	33.05	37.00	-3.95
500.0350	24.37	1.01	65	6.80	31.17	37.00	-5.83
625.0300	20.64	1.01	215	10.40	31.04	37.00	-5.96
875.0513	21.12	1.01	128	15.65	36.77	37.00	-0.23
1000.0000	18.06	1.01	121	17.90	35.96	37.00	-1.04

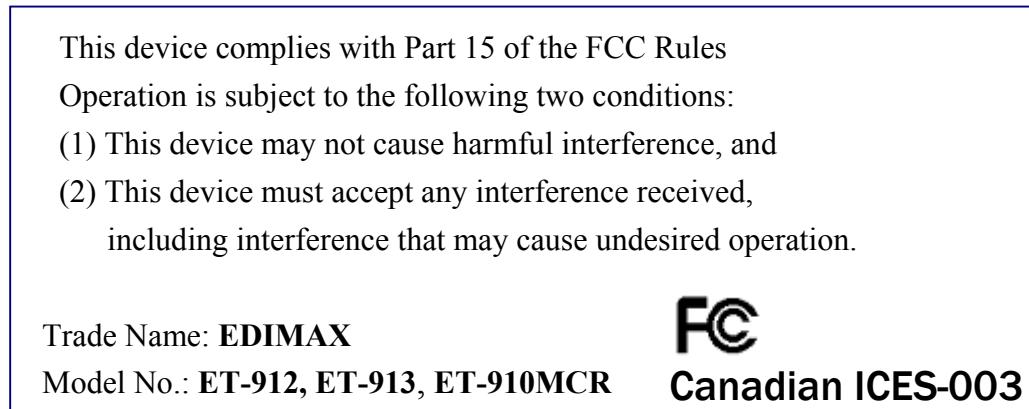
(Vertical)

250.0200	34.15	1.01	42	-1.80	32.35	37.00	-4.65
375.0300	28.86	2.50	293	3.15	32.01	37.00	-4.99
500.0250	27.26	1.01	152	6.80	34.06	37.00	-2.94
875.0438	19.12	2.50	230	15.65	34.77	37.00	-2.23
937.0775	10.71	2.50	199	17.16	27.87	37.00	-9.13

Note:

1. Margin = Amplitude - limit, if margin is minus means under limit.
2. Corrected Amplitude = Reading Amplitude + Correction Factors
3. Correction factor = Antenna factor + (Cable Loss - Amplitude gain)
(For example : 30MHz correction factor = 15.5 + (-15.26) = 0.24 dB/m)

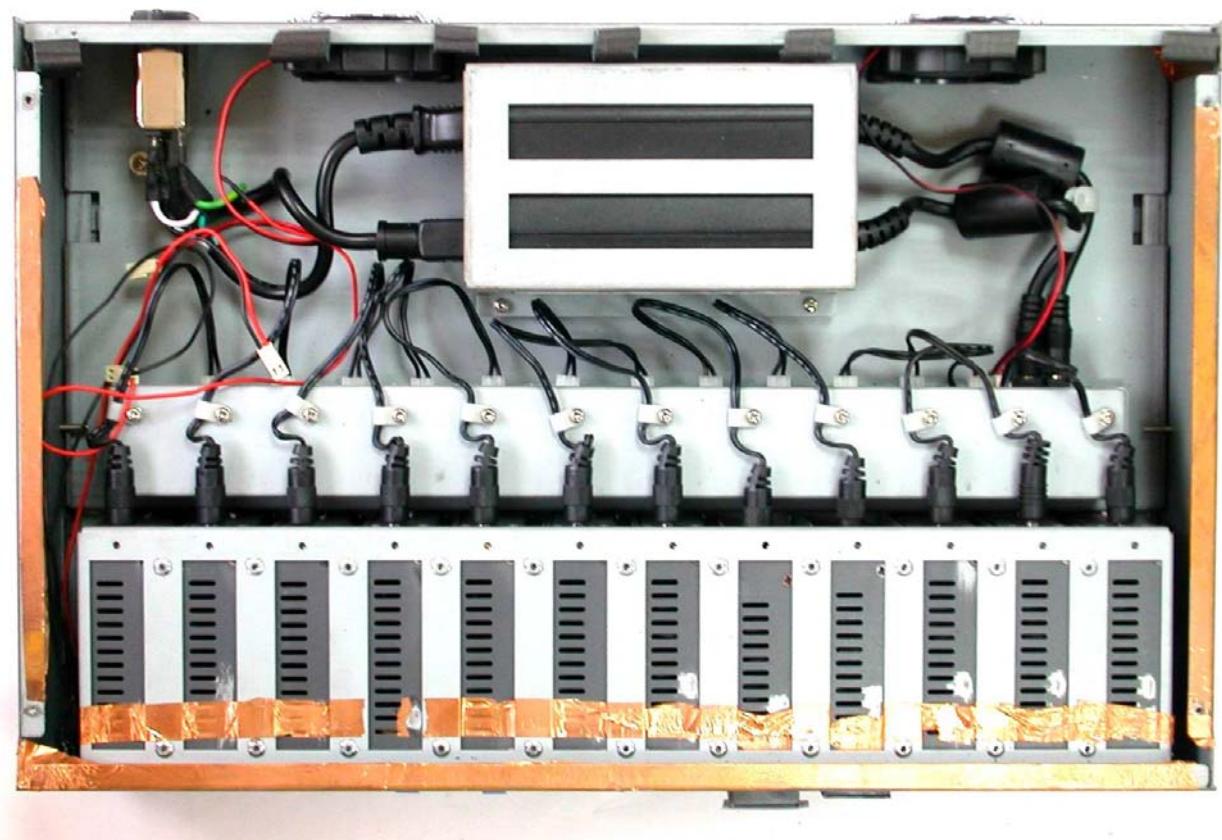
LABEL Format:

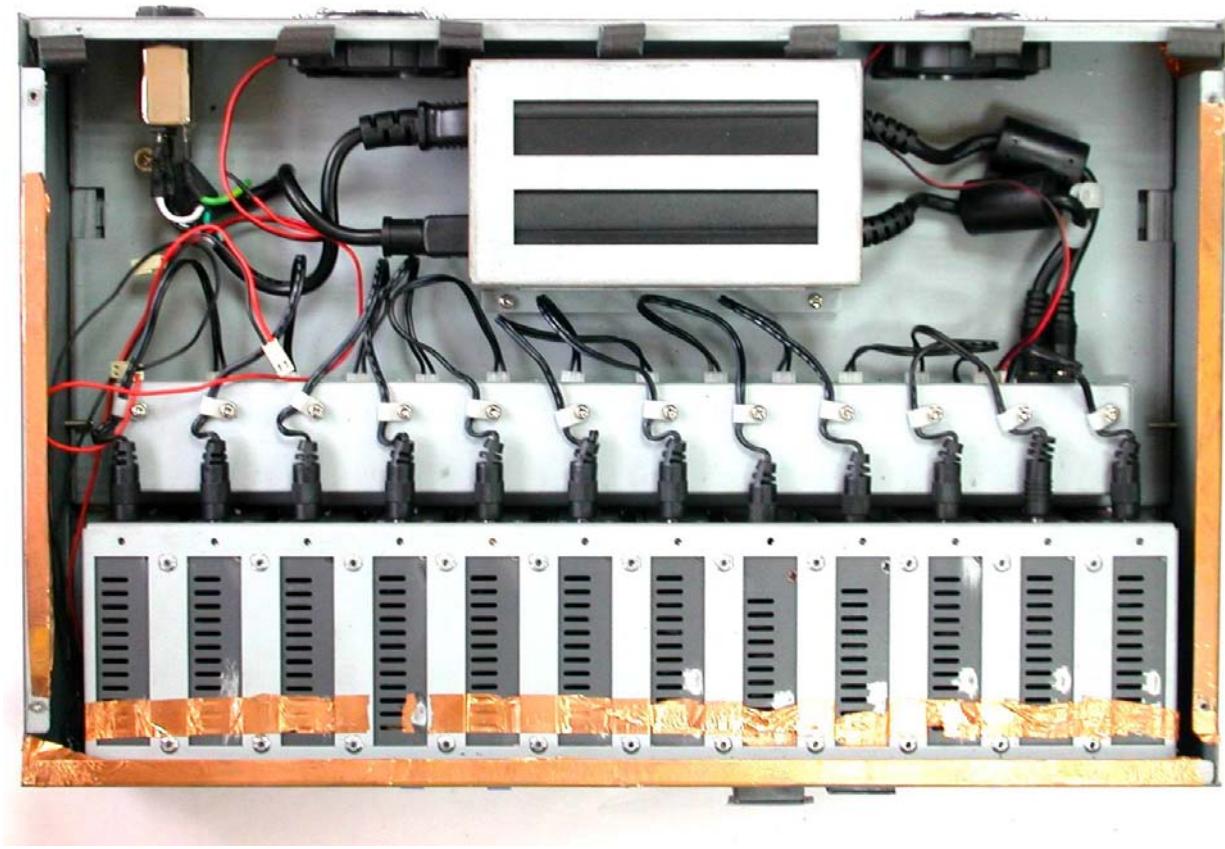


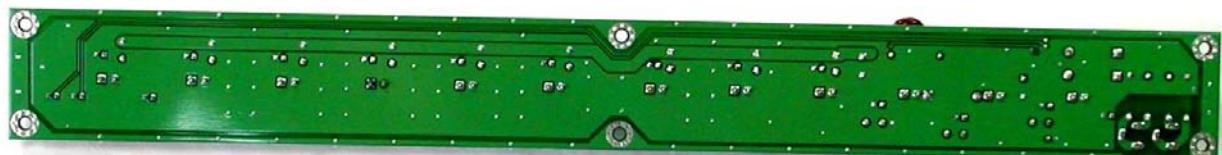
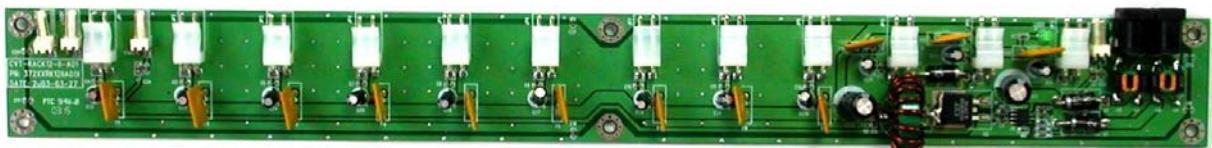
LABEL Size: 40 X20 mm

LABEL Position:









ET-913



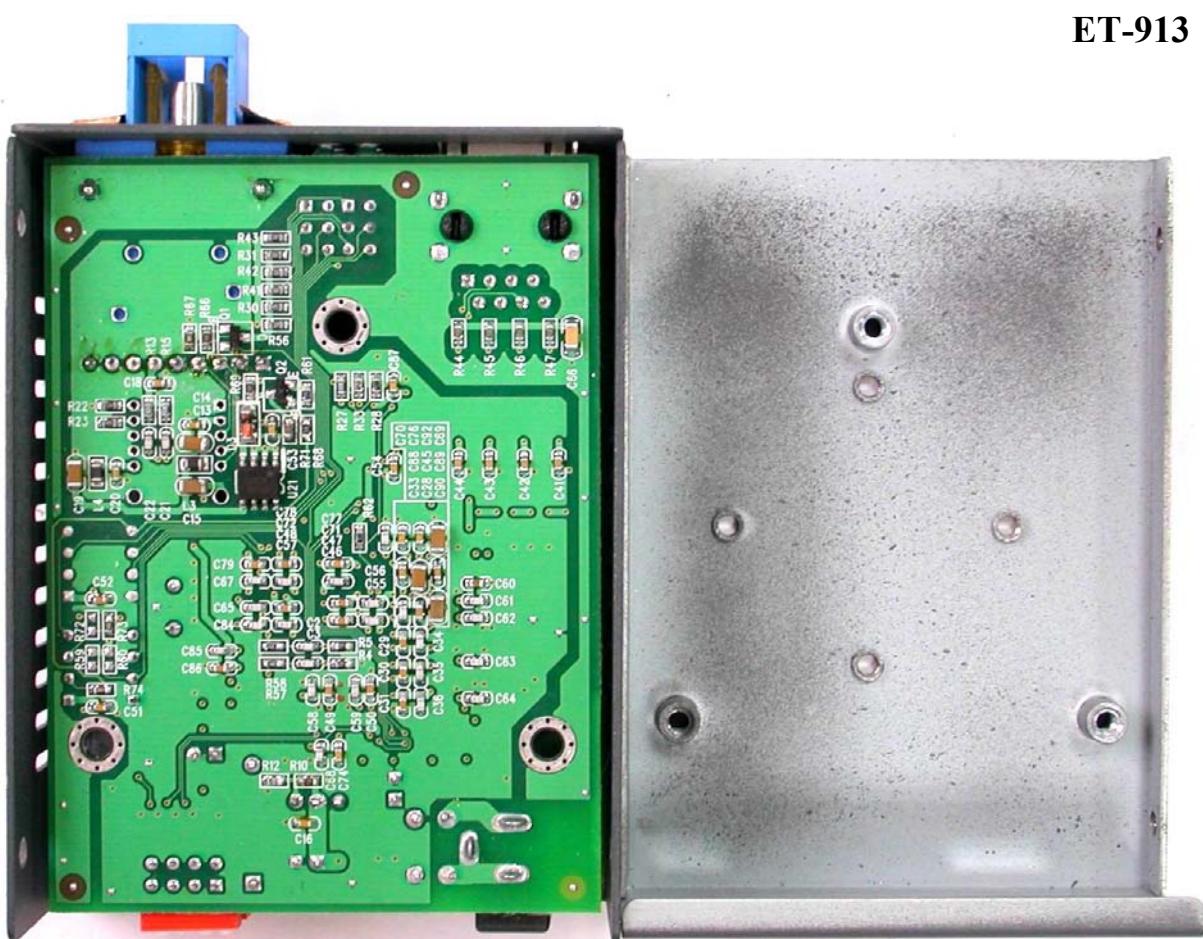
ET-913



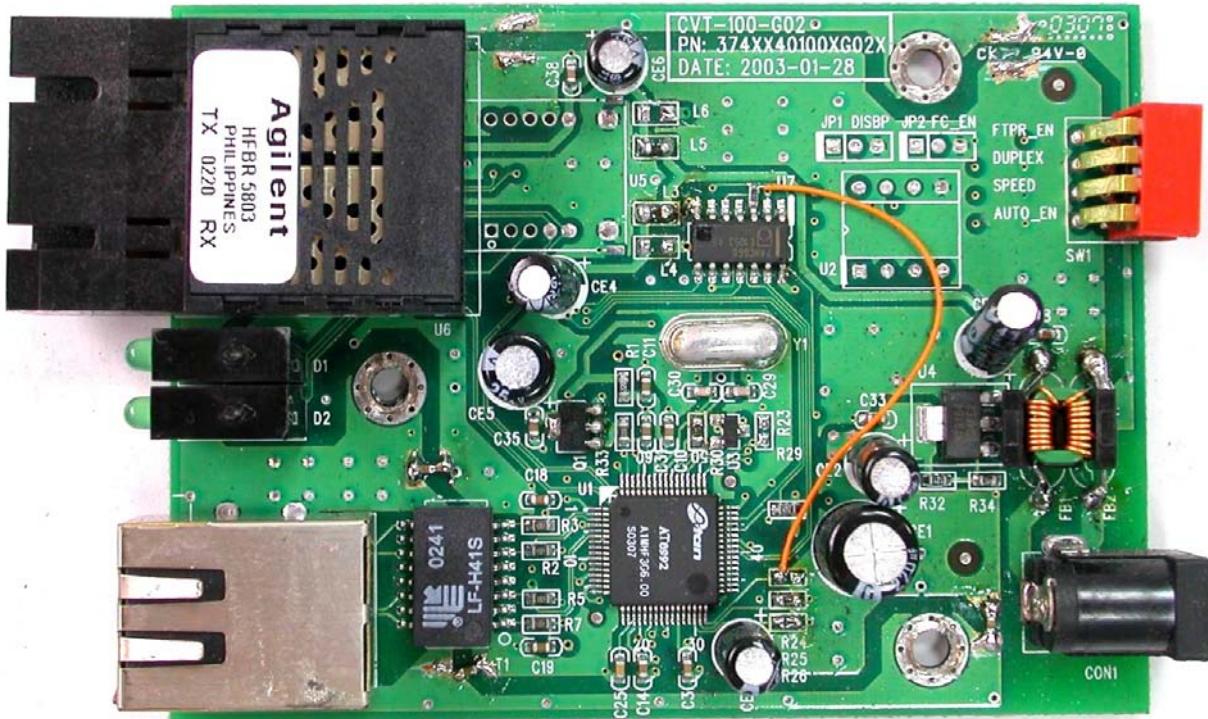
ET-913



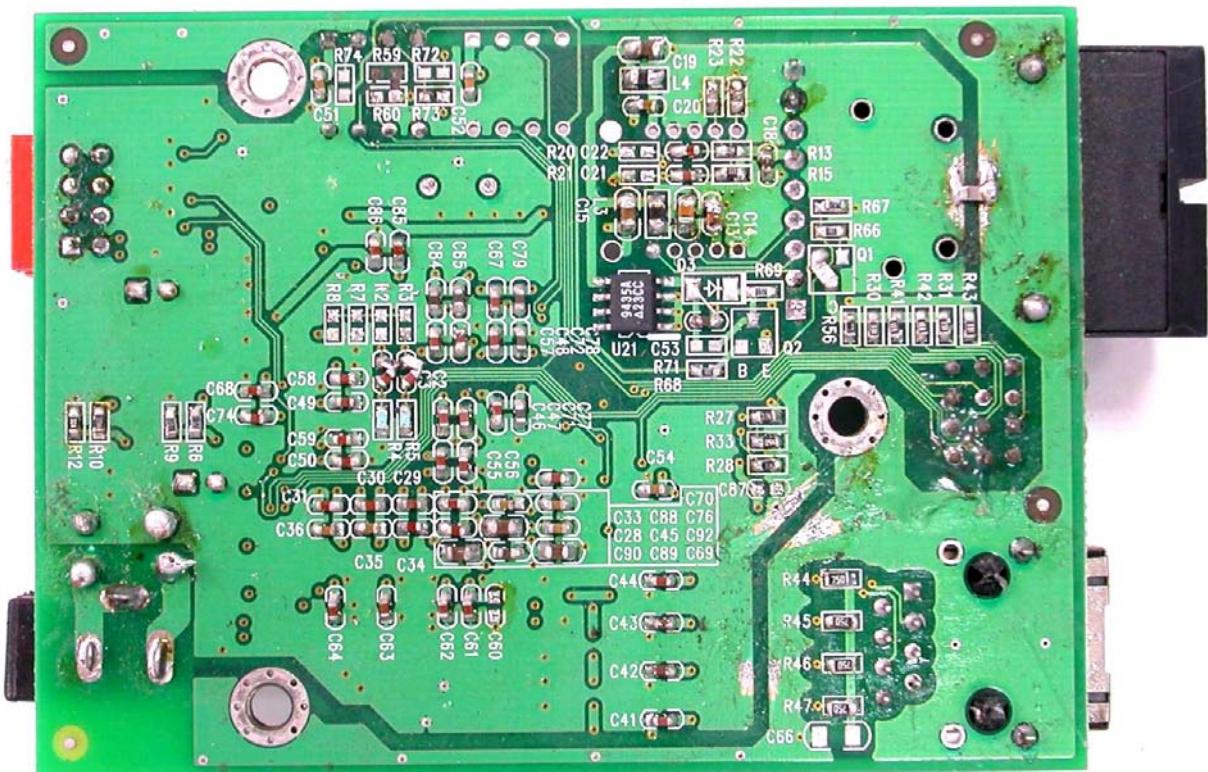
ET-913



ET-913



ET-913



ET-912



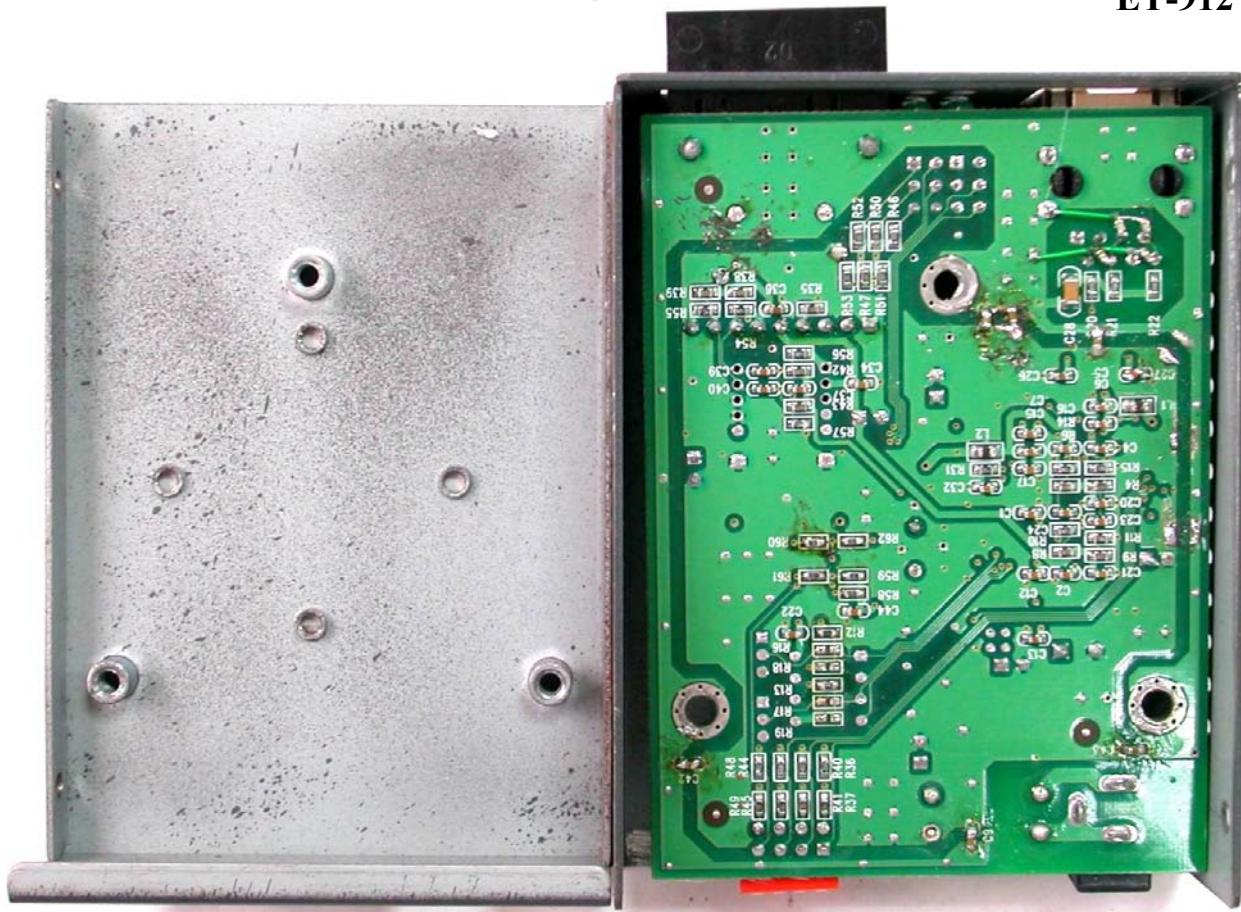
ET-912



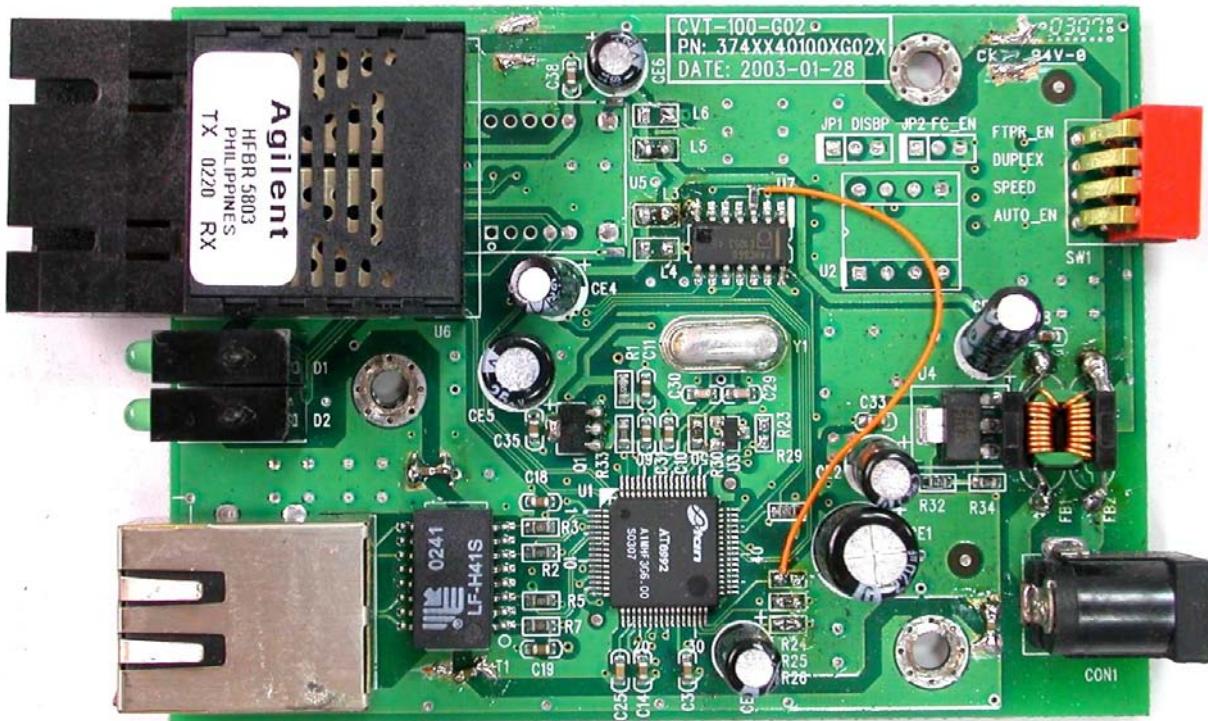
ET-912



ET-912



ET-912



ET-912

